

## United States Patent and Trademark Office

ENITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,079	09/16/2002	4	Toshio Kawai	20.002-AG	2619
29453	7590 06/17/200	04		EXAMINER	
JUDGE PAT		HECKENBERG JR, DONALD H			
3-1 WAKAN	UKUGAWA 3RD FI IATSU-CHO	ART UNIT	PAPER NUMBER		
NISHINOMIYA-SHI, HYOGO, 662-0035				1722	* .
JAPAN				DATE MAILED: 06/17/2004	;

Please find below and/or attached an Office communication concerning this application or proceeding.

				7 1			
		Application No.	Applicant(s)	- 4			
	Office Action Summer	10/065,079	KAWAI, TOSHIO				
	Office Action Summary	Examiner	Art Unit				
		Donald Heckenberg	1722				
Period fo	The MAILING DATE of this communication or Reply	n appears on the cover sheet wit	h the correspondence addres	·s			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicatic period for reply specified above is less than thirty (30) days, or period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by reply received by the Office later than three months after the end patent term adjustment. See 37 CFR 1.704(b).	ION.  FR 1.136(a). In no event, however, may a re on.  , a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communications (35 U.S.C. 8 133)	nication,			
Status							
1)□	Responsive to communication(s) filed on						
		This action is non-final.					
3)[	Since this application is in condition for all		rs, prosecution as to the me	rits is			
	closed in accordance with the practice un-						
Dispositi	on of Claims						
4) 又	Claim(s) 1-8 is/are pending in the applicat	rion					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) 3 is/are allowed.						
	Claim(s) is/are rejected.						
7)🛛	Claim(s) 1, 2, and 4-8 is/are objected to.						
8)[	Claim(s) are subject to restriction a	ind/or election requirement.					
Applicati	on Papers		,				
9)🖂	The specification is objected to by the Exa	miner.					
	The drawing(s) filed on <u>16 September 200.</u>		objected to by the Examiner	r.			
	Applicant may not request that any objection to			•			
	Replacement drawing sheet(s) including the co		, ·	121(d).			
11) 🔲 .	The oath or declaration is objected to by th	e Examiner. Note the attached	Office Action or form PTO-15	52.			
Priority u	nder 35 U.S.C. § 119						
a)[	Acknowledgment is made of a claim for for All b) Some * c) None of:  1. Certified copies of the priority docunt Certified copies of the priority docunt Copies of the certified copies of the application from the International But	ments have been received. nents have been received in App priority documents have been re	plication No	e			
* S	ee the attached detailed Office action for a	· · · · · · · · · · · · · · · · · · ·	eceived.				
		·					
Attachment	(s)						
	of References Cited (PTO-892)	4) 🔲 Interview Sur	mmary (PTO-413)				
3) 🔲 Inform	of Draftsperson's Patent Drawing Review (PTO-948 ation Disclosure Statement(s) (PTO-1449 or PTO/SE No(s)/Mail Date		Mail Date  primal Patent Application (PTO-152)				

Art Unit: 1722

- 1. Acknowledgment is made of Applicant's claim for foreign priority based on an application filed in Japan on November 15, 2001. It is noted, however, that Applicant has not filed a certified copy of the Japanese application as required by 35 U.S.C. 119(b).
- 2. A substitute specification is required pursuant to 37 CFR 1.125(a) because the current specification contains numerous misspellings and grammatical errors. For example, the sentence at  $\P$  4, ll. 12-15 reads: "The mold-release defect, which spreads mottled-like on the impressed face of the disk, is referred to as clouding due to its nebulous, white-/black-dotted appearancelook and dsks defective in outwlook nce are not shipped out but disposed of." As another example,  $\P$  6, 11. 6-9 reads: "bit for the most part molten-resin temperatures are generally 300 to 400°C; die temperatures 80 to 1. . In this connection, stampers are made with nickel plate as a base material, and nickel's therdiffusivity mal (coefficient of thermal diffusion) per unit time is fairly large  $(0.085 \text{ m}^2)$ ." It appears as though there were errors in transmitting or printing the specification. In any event, a substitute specification is required correcting the numerous spellings and grammer.

Application/Control Number: 10/065,079

Art Unit: 1722

Page 3

A substitute specification filed under 37 CFR 1.125(a) must only contain subject matter from the original specification and any previously entered amendment under 37 CFR 1.121. If the substitute specification contains additional subject matter not of record, the substitute specification must be filed under 37 CFR 1.125(b) and (c).

A new abstract is also required because line 2 recites "the mold is op, ened" which should apparently read "the mold is opened."

3. Claims 1-2 and 4-8 are objected to because of the following informalities:

Claim 1, line 6 recites "the diffusivityrmal" which should apparently read "thermal diffusivity."

Claim 4, line 6 recites "coated on sid molding surface" which should apparently read "on said molding surface."

Claim 5, line 3 recites "therdiffusivity mal" which should apparently read "thermal diffusivity."

Claim 6, line 3 recites "therdiffusivity mal" which should apparently read "thermal diffusivity."

Claim 7, line 3 recites "therdiffusivity mal" which should apparently read "thermal diffusivity."

Application/Control Number: 10/065,079

Art Unit: 1722

Claim 8, line 3 recites "therdiffusivity mal" which should apparently read "thermal diffusivity."

Appropriate correction is required.

- 4. Claims 3 is allowed. Claims 1, 2, and 4-8 are allowable except for the objections to the claims noted above.
- 5. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach or suggest an optical-disk stamper wherein the molding surface, including bumbs, is formed of a synthetic polymer whose thermal diffusivity is 0.01 m²/h or less as defined in claims 1 and 3, or a synthetic polymer coating layer on the molding surface having such a thermal diffusivity as defined in claim 4. The closest prior art is disclosed by Sano (U.S. Pat. No. 6,706,465). Sano discloses stampers, with one embodiment specifying the stamper to have a thermal diffusivity greater than 0.0012 m²/h (cl. 19, 11. 43-55). However, the only materials noted for constructing the stamper in this embodiment are metals (cl. 19, 11. 53-55). Moreover, in another embodiment, Sano discloses metal stampers, specifying that the stampers should have a thermal diffusivity of not smaller than 0.01 m²/h (cl. 20, 11. 31-58). Sano thus

Art Unit: 1722

does not teach or suggest a synthetic polymer stamper with a thermal diffusivity of 0.01  $\mathrm{m}^2/\mathrm{h}$  or less.

6. The following references are cited as being related to the instant application. Note though, none of the reference teach or suggest any of the features of the instant claims indicated allowable above.

Okazaki (U.S. Pat. No. 4,723,903) discloses a conventional stamper.

Kerfled (U.S. Pat. No. 6,345,827) discloses a stamper manufacturing process.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald Heckenberg whose telephone number is (571) 272-1131. The examiner can normally be reached on Monday through Friday from 9:30 A.M. to 6:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker, can be reached at (571) 272-1151. The official fax phone number for

Application/Control Number: 10/065,079 Page 6

Art Unit: 1722

the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <<a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

Donald Hockenberg

June 2004